

$$|a\rangle|b\rangle$$

1. An arc welding solid wire whose surface comprises copper plated film, wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is controlled in the range between 50 and 88 %.
2. The arc welding solid wire of claim 1, wherein said elastic limit ratio is controlled by installing three to eight elastic limit ratio control vertical rollers and three to eight elastic limit ratio control transverse rollers which have a ratio D/d equal to 40 to 60 (where D is roller diameter and d is wire diameter) following coil control vertical and transverse rollers after final drawing.

[illegible]